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Job No.: CQCE/BBMP/TCR/16/2020-2021 Date: 12.07.2020

TEST REPORT ON CEMENT

Client Agency : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Name of Work : **Sri. T Chandrashekar Reddy,** Contractor, Bangalore.
Sample ID: : Maintenance of Borewells and RO Plants in Ward No.16, BBMP, Bangalore.
Sample Supplied by: : Cement (Ultratech 53 grade OPC)
Date of Manufacture: : AGENCY
Date of Testing : June
: 10.07.2020 to 12.07.2020

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	360 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00%	-

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Job No.: CQCE/BBMP/TCR/16/2020-2021 Date : 12.07.2020

TEST REPORT ON FINE AGGREGATES (SAND)

Client : Executive Engineer, RR Nagar Division,BBMP, Bangalore.
Agency : Sri. T Chandrashekar Reddy, Contractor, Bangalore.
Name of Work : Maintenance of Borewells and RO Plants in Ward No.16, BBMP, Bangalore.
Date of Testing : 12.07.2020
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	8.40	8.40	91.6	90-100
2.36	110	11.00	19.40	80.6	75-100
1.18	195	19.50	38.90	61.1	55-90
600 Micron	225	22.50	61.40	38.6	35-59
300 Micron	182	18.20	79.60	20.4	8-30
150 Micron	138	13.80	93.40	6.6	0-10

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Job No.: CQCE/BBMP/TCR/16/2020-2021

Date : 12.07.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency : **Sri. T Chandrashekar Reddy,** Contractor, Bangalore.
Name of Work : Maintenance of Borewells and RO Plants in Ward No.16, BBMP, Bangalore.
Date of Testing : 12.07.2020
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : 40mm Aggregates

Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	215	1.43	1.43	98.57	95-100
20	8530	56.87	58.30	41.70	30-70
10	3265	21.77	80.07	19.93	10-35
4.75	2420	16.13	96.20	3.80	0-5

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Job No: CQCE/BBMP/TCR/16/2020-2021

Date : 12.07.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency : **Sri. T Chandrashekar Reddy,** Contractor, Bangalore.
Name of Work : Maintenance of Borewells and RO Plants in Ward No.16, BBMP, Bangalore.
Date of Testing : 12.07.2020
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	184	3.7	3.7	96.3	95-100
10	2630	52.6	56.3	43.7	25-55
4.75	1758	35.2	91.4	8.6	0-10

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Job No.: CQCE/BBMP/TCR/16/2020-2021 15.07.2020

TEST REPORT ON CPVC PIPE

Client Agency	: Executive Engineer, RR Nagar Division ,BBMP, Bangalore
Name of Work	: : Sri. T Chandrashekar Reddy, Contractor, Bangalore. : Maintenance of Borewells and RO Plants in Ward No.16, BBMP, Bangalore.
Sample Supplied by:	:AGENCY
BIS Code:	IS 13360(Part3/Sec 1):1995 IS 15778:2007
Sample Identification:	CPVC pipe 50mm dia
Date of Testing	: 15.07.2020

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	54	54 mm
2	Mean Outside Diameter (mm)	54.1	Min 53.9 mm Max 54.1 mm
3	Outside Diameter at Any Point (mm)	54	Min 53.7 mm Max 54.3 mm
4	Density	1555 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Job No.: CQCE/BBMP/TCR/16/2020-2021

Date: 31.05.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	
Agency	: **Executive Engineer,** RR Nagar Division, BBMP,Bangalore.
Name of the work	: **Sri. T Chandrashekar Reddy,** Contractor, Bangalore.
Sample ID	: Maintenance of Borewells and RO Plants in Ward No.16, BBMP, Bangalore.
Size of cubes	: Cement Concrete
Cross Sectional Area	: 150mmx150mmx150mm
Technical Reference	: 22500 mm^2
Grade of Concrete	: IS: 516-1959 (Reaffirmed 2008)
Compressive Strength as on	: M_{20}
	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.05.2020	31.05.2020	8.146	329.3	14.64
2	24.05.2020	31.05.2020	8.132	335.3	14.90
3	24.05.2020	31.05.2020	8.154	362.4	16.11

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Job No.: CQCE/BBMP/TCR/16/2020-2021

Date: 21.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	
Agency	**: Executive Engineer,** RR Nagar Division, BBMP,Bangalore.
Name of the work	**: Sri. T Chandrashekar Reddy,** Contractor, Bangalore.
Sample ID	: Maintenance of Borewells and RO Plants in Ward No.16, BBMP, Bangalore.
Size of cubes	: Cement Concrete
Cross Sectional Area	: 150mmx150mmx150mm
Technical Reference	: 22500 mm^2
Grade of Concrete	: IS: 516-1959 (Reaffirmed 2008)
Compressive Strength as on	: M_{20}
	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.05.2020	21.06.2020	8.154	505.2	22.45
2	24.05.2020	21.06.2020	8.162	516.3	22.95
3	24.05.2020	21.06.2020	8.138	489.3	21.75

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Job No.: CQCE/BBMP/TCR/16/2020-2021

Date: 31.05.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	
Agency	: **Executive Engineer,** RR Nagar Division, BBMP,Bangalore.
Name of the work	: **Sri. T Chandrashekar Reddy,** Contractor, Bangalore.
Sample ID	: Maintenance of Borewells and RO Plants in Ward No.16, BBMP, Bangalore.
Size of cubes	: Cement Concrete
Cross Sectional Area	: 150mmx150mmx150mm
Technical Reference	: 22500 mm^2
Grade of Concrete	: IS: 516-1959 (Reaffirmed 2008)
Compressive Strength as on	: M_{20}
	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.05.2020	31.05.2020	8.138	336.3	14.95
2	24.05.2020	31.05.2020	8.146	368.2	16.36
3	24.05.2020	31.05.2020	8.152	376.2	16.72

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Job No.: CQCE/BBMP/TCR/16/2020-2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 21.06.2020

Client Agency	: Executive Engineer, RR Nagar Division, BBMP,Bangalore.
Name of the work	: Sri. T Chandrashekar Reddy, Contractor, Bangalore.
Sample ID	: Maintenance of Borewells and RO Plants in Ward No.16, BBMP, Bangalore.
Size of cubes	: Cement Concrete
Cross Sectional Area	: 150mmx150mmx150mm
Technical Reference	: 22500 mm^2
Grade of Concrete	: IS: 516-1959 (Reaffirmed 2008)
Compressive Strength as on	: M_{20}
	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.05.2020	21.06.2020	8.164	506.2	22.50
2	24.05.2020	21.06.2020	8.152	518.2	23.03
3	24.05.2020	21.06.2020	8.118	534.6	23.76

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Job No.: CQCE/BBMP/TCR/16/2020-2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 31.05.2020

Client	: Executive Engineer, RR Nagar Division, BBMP,Bangalore.
Agency	: Sri. T Chandrashekar Reddy, Contractor, Bangalore.
Name of the work	: Maintenance of Borewells and RO Plants in Ward No.16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.05.2020	31.05.2020	8.138	336.3	14.95
2	24.05.2020	31.05.2020	8.146	362.5	16.11
3	24.05.2020	31.05.2020	8.152	346.5	15.40

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Job No.: CQCE/BBMP/TCR/16/2020-2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 21.06.2020

Client	
Agency	: Executive Engineer, RR Nagar Division, BBMP,Bangalore.
Name of the work	: Sri. T Chandrashekar Reddy, Contractor, Bangalore.
Sample ID	: Maintenance of Borewells and RO Plants in Ward No.16, BBMP, Bangalore.
Size of cubes	: Cement Concrete
Cross Sectional Area	: 150mmx150mmx150mm
Technical Reference	: 22500 mm^2
Grade of Concrete	: IS: 516-1959 (Reaffirmed 2008)
Compressive Strength as on	: M_{20}
	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.05.2020	21.06.2020	8.125	509.3	22.64
2	24.05.2020	21.06.2020	8.165	498.6	22.16
3	24.05.2020	21.06.2020	8.148	524.3	23.30

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Job No.: CQCE/BBMP/TCR/16/2020-2021

Date: 01.08.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Executive Engineer, RR Nagar Division, BBMP,Bangalore.
Agency	: Sri. T Chandrashekar Reddy, Contractor, Bangalore.
Name of the work	: Maintenance of Borewells and RO Plants in Ward No.16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.07.2020	01.08.2020	8.135	336.8	14.97
2	25.07.2020	01.08.2020	8.118	346.5	15.40
3	25.07.2020	01.08.2020	8.149	352.8	15.68

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/TCR/16/2020-2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 22.08.2020

Client	
Agency	: Executive Engineer, RR Nagar Division, BBMP,Bangalore.
Name of the work	: Sri. T Chandrashekar Reddy, Contractor, Bangalore.
Sample ID	: Maintenance of Borewells and RO Plants in Ward No.16, BBMP, Bangalore.
Size of cubes	: Cement Concrete
Cross Sectional Area	: 150mmx150mmx150mm
Technical Reference	: 22500 mm^2
Grade of Concrete	: IS: 516-1959 (Reaffirmed 2008)
Compressive Strength as on	: M_{20}
	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.07.2020	22.08.2020	8.168	505.2	22.45
2	25.07.2020	22.08.2020	8.179	516.3	22.95
3	25.07.2020	22.08.2020	8.181	498.6	22.16

Note:

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ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/TCR/16/2020-2021

Date: 01.08.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Executive Engineer, RR Nagar Division, BBMP,Bangalore.
Agency	: Sri. T Chandrashekar Reddy, Contractor, Bangalore.
Name of the work	: Maintenance of Borewells and RO Plants in Ward No.16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.07.2020	01.08.2020	8.146	346.3	15.39
2	25.07.2020	01.08.2020	8.165	335.2	14.90
3	25.07.2020	01.08.2020	8.138	349.6	15.54

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Lab No: CQCE/BBMP/TCR/16/2020-2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 22.08.2020

Client Agency	: Executive Engineer, RR Nagar Division, BBMP,Bangalore.
Name of the work	: Sri. T Chandrashekar Reddy, Contractor, Bangalore.
Sample ID	: Maintenance of Borewells and RO Plants in Ward No.16, BBMP, Bangalore.
Size of cubes	: Cement Concrete
Cross Sectional Area	: 150mmx150mmx150mm
Technical Reference	: 22500 mm^2
Grade of Concrete	: IS: 516-1959 (Reaffirmed 2008)
Compressive Strength as on	: M_{20}
	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.07.2020	22.08.2020	8.168	506.2	22.50
2	25.07.2020	22.08.2020	8.175	516.3	22.95
3	25.07.2020	22.08.2020	8.183	535.2	23.79

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Date: 01.08.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, RR Nagar Division, BBMP,Bangalore.

Agency : Sri. T Chandrashekar Reddy, Contractor, Bangalore.

Name of the work : Maintenance of Borewells and RO Plants in Ward No.16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.07.2020	01.08.2020	8.128	336.3	14.95
2	25.07.2020	01.08.2020	8.139	365.2	16.23
3	25.07.2020	01.08.2020	8.149	349.2	15.52

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Client	
Agency	**: Executive Engineer,** RR Nagar Division, BBMP,Bangalore.
Name of the work	**: Sri. T Chandrashekar Reddy,** Contractor, Bangalore.
Sample ID	: Maintenance of Borewells and RO Plants in Ward No.16, BBMP, Bangalore.
Size of cubes	: Cement Concrete
Cross Sectional Area	: 150mmx150mmx150mm
Technical Reference	: 22500 mm^2
Grade of Concrete	: IS: 516-1959 (Reaffirmed 2008)
Compressive Strength as on	: M_{20}
	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.07.2020	22.08.2020	8.146	525.2	23.34
2	25.07.2020	22.08.2020	8.155	516.3	22.95
3	25.07.2020	22.08.2020	8.172	508.2	22.59

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